

8-Bit Microcontroller Market Report by Product Type (Less Than 80 Pins, 80-120 Pins, More Than 120 Pins), End Use Industry (Automotive, Aerospace and Defense, Consumer Electronics and Home Appliances, Healthcare, Data Processing and Communication, and Others), and Region 2024-2032

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Abstracts

The global 8-bit microcontroller market size reached US\$ 8.2 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 13.9 Billion by 2032, exhibiting a growth rate (CAGR) of 5.93% during 2024-2032.

An 8-bit microcontroller contains an 8-bit central processing unit (CPU) and a set of high-performance state-of-the-art peripherals, such as memory, controllers, interfaces and external hardware, to assist with computation. It is widely utilized in word processing, gaming software, music development, spreadsheets, and task management as it consumes low power and improves computer performance. Nowadays, manufacturers around the world are introducing modern 8-bit microcontrollers in various shapes and sizes integrated with complex features, including multiple cores, advanced hardware security and internet capabilities.

8-Bit Microcontroller Market Trends:

8-bit microcontrollers are incorporated in the electronics of vehicles to withstand extreme environmental conditions and stress. This, in confluence with the boosting sales of passenger vehicles on account of rapid urbanization, inflating income levels, and improving road infrastructure, represents one of the key factors contributing to the market growth. Apart from this, the escalating use of smart medical device technology in telehealth and remote patient monitoring is catalyzing the demand for 8-bit

microcontrollers in nebulizers and syringe pumps to facilitate continuous drug delivery or real-time dosing control. This can also be attributed to the emerging trend of the Internet of Medical Things (IoMT), which gathers and implements medical tools connected to public healthcare technology infrastructure via internet-based communications systems. Moreover, the home automation trend, coupled with the growing demand for miniature devices, are driving the usage of 8-bit microcontrollers in consumer electronics and home appliances like washing machines and microwave ovens. Besides this, the rising application of heating, ventilation, and air conditioning (HVAC) systems in schools, airports, hospitals and residential, and commercial buildings is anticipated to create a positive outlook for the market across the globe.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global 8-bit microcontroller market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on product type and end use industry.

Breakup by Product Type:

Less Than 80 Pins

80-120 Pins

More Than 120 Pins

Breakup by End Use Industry:

Automotive

Aerospace and Defense

Consumer Electronics and Home Appliances

Healthcare

Data Processing and Communication

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Analog Devices Inc., Holtek Semiconductor Inc., Infineon Technologies AG, Microchip Technology Inc., NXP Semiconductors N.V., Renesas Electronics Corporation, Seiko Epson Corporation, Silicon Laboratories Inc., Sony Group Corporation, STMicroelectronics N.V., Texas Instruments Incorporated and Zilog Inc. (Littelfuse Inc.).

Key Questions Answered in This Report:

How has the global 8-bit microcontroller market performed so far and how will it perform in the coming years?
What has been the impact of COVID-19 on the global 8-bit microcontroller market?
What are the key regional markets?
What is the breakup of the market based on the product type?
What is the breakup of the market based on the end use industry?
What are the various stages in the value chain of the industry?
What are the key driving factors and challenges in the industry?
What is the structure of the global 8-bit microcontroller market and who are the key players?

What is the degree of competition in the industry?

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